

DESCRIPTIVE ABSTRACT

Spin valve device with spin-dependent, specular electronic reflection.

The device comprises an electrically conductive, nonmagnetic layer placed between two magnetic layers. According to the invention, at least one of these magnetic layers (R, R', F) has a specular electronic reflection dependent on the orientation of the spin of the electrons relative to the magnetization direction.

Application to the implementation of magnetic field sensors, read heads, memories, etc.

(Fig. 2)